

**GLOBAL COMMAND AND CONTROL SYSTEM (GCCS)  
GCCS (Solaris) Release Bulletin SEGMENTS Version 2.2.2**

**rev 0**

**June 27, 1997**

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## Table of Contents

<b><u>Sections</u></b>	<b><u>Page</u></b>
FORWARD .....	iv
COP Sync Tool (1.0.1.1.01:04/29/97) (COP) .....	COP-1
Enhanced Linked Virtual Information System (1.4.0.1:04/30/97) (LVIS) .....	LVIS-1
EVAC (2.3.01:04/23/97) (EVAC) .....	EVAC-1
GCCS COE Patch (1.0.02:06/17/97) (GCOEPTC) .....	GCOEPTC-1
GCCS Synchronization Tool (5.6.1.2.01:04/18/97) (SYNCTOOLS) .....	SYNCTOOLS-1
GSORTS Oracle Engine (3.2.01:05/15/97) (GUPD) .....	GUPD-1
GSORTS Oracle Engine Patch 1 (3.3:05/21/97) (GUPD.P1) .....	GUPD.P1-1
GSORTS ORACLE SERVER (3.2:04/29/97) (GORA.P1) .....	GORA-1
Link 11/TadilA (3.0.0.0:5/19/97) (LINK11) .....	Link11-1
Patch 2 for GSORTS 2.0 (2.3:06/24/97) (GSORTS.P2) .....	GSORTS.P2-1
Theater Ballistic Missile Defense (3.0.5.5:05/01/97) (TBMD) .....	TBMD-1
Unified Build (3.0.1.6GP5:04/30/97) (UBPATCH5) .....	UB_Patch.P5-1

**FORWARD****I. Procedures Required Prior to Segment Installation**

When configured to comply with security requirements in the Global Command and Control System (GCCS) Trusted Facility Manual for Version 2.1 with Change 1, the oradba account is verified (internally to Oracle) with a password. However, GCCS database segments have not yet been modified to comply with this requirement, so the oradba account must be modified temporarily to allow database segment loading.

If your site has configured the oradba account to verify the password internally, the following procedures should be used prior to installing application database segments and creating database users:

<b><u>System Prompt</u></b>	<b><u>Response</u></b>
<i>machine name#</i>	<b>su - oradba</b>
<i>oradba@machine name%</i>	<b>sqlplus oradba</b>
Enter password:	<b>&lt;Oracle password&gt;</b>
SQL>	<b>alter user oradba identified externally;</b>
User altered.	
SQL>	<b>exit</b>

**Following installation of all database segments, these procedures should be used to reset the oradba account so that it requires an internal password:**

<b><u>System Prompt</u></b>	<b><u>Response</u></b>
<i>oradba@machine name%</i>	<b>sqlplus /</b>
SQL>	<b>alter user oradba identified by &lt;Oracle password&gt;;</b>
User altered.	
SQL>	<b>exit</b>

**II. Using The Remote Tape Drive During Segment Installation**

Similarly, the GCCS TFM also requires the user to remove the hostname entries in the .rhosts file, which prohibits remote segment installations on the local network. If segment installation requires access to the tape drive on another local host, the installer will have to do the following:

- 1) Remote login to the machine with the tape drive.
- 2) Switch to user "root"
- 3) If the .rhosts file does not exist, the hostname must be created.
- 4) Edit the .rhosts file; add the following to the end of the file:  
+ hostname

(Where hostname is the name of the system on which SAInstaller will be run)

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

**UNCLASSIFIED**

- 5) Switch back to SAInstaller and install segments as needed.
- 6) After loading the last segment, return to the remote login window and remove the “+ hostname” entry from the .rhosts file.

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**COP Sync Tool (1.0.1.1.01:04/29/97) (COP)**

***SEGMENT DESCRIPTION***

The Common Operational Picture (COP) is a segment developed for the Global Command and Control System (GCCS) Version 2.2, running Unified Build (UB) Version 3.0.1.6G. The COP Sync Tool includes the MDXNet interface, which allows the near real-time exchange of track data between participating nodes on a wide area network (WAN). The COP Sync Tool segment can be installed on either a Tactical Advanced Computer (TAC) running HP-UX Version 9.0.7 or a SPARC computer running Solaris Version 2.3.

The COP Sync Tool segment need only be loaded on one system in the LAN. For example, if the COP Sync Tool segment is loaded on the Tdbm Master, it need not be loaded on any Tdbm slave machine.

***FIXES / NEW FEATURES***

This release updates the following:

1. Version 1.0.1.1.01 is an update to Version 1.0.1.1 of the COP Sync Tool segment.
2. This integration re-delivery corrects files that were discovered to be incorrect, in the original delivery.
3. The COP segment corrected the size in the hardware file. Also, added clarification to the release notes file concerning version numbering. The requires file requires a version of no less than the version specified. (Since this particular segment will work with versions as low as 3.0.1.4, that is what should appear in the requires file.) Also, GCCS COE version 2.2.0.5 (which is greater than GCCS 2.2) is the aggregate version for the UB Core (version 3.0.1.6.02G) component.

***INSTALLATION INSTRUCTIONS***

Step 1: Verify installation of required segments:

GCCS COE 2.2;  
UB CORE 3.0.1.4G; and  
UB Apps 3.0.1.4G.

Step 2: Install COP 1.0.1.1.01.

The following will be presented to the installer:

ENTER MACHINE UID:

OK

ENTER LOCAL COMMAND:

OK

ENTER OWNTRACK NAME: \_\_\_\_\_

OK

CLEAN TRACK TABLES.

OK

### ***KNOWN PROBLEMS***

This release contains the following:

1. Manually updating the motion model field of track does not cause an update to be sent throughout the MDXNet network.
2. Associations and disassociations are not handled correctly in MDXNet. More specifically, associations and disassociations are not distributed by MDXNet at the time of creation but upon the next update to one of the tracks.

It is recommended as a Standard Operating Procedure (SOP) that associations only be performed on tracks that a node "owns" (i.e., contains UUIDs matching the trigraph of the workstation).

The following are some specific anomalies with associations, disassociations, and Nu-Trk operations:

- a. Broken ELINT associations are not distributed throughout the MDXNet network properly. Locally, the association is broken. However, the disassociation is not propagated throughout the MDXNet network.
- b. Nu-Tracking a link, acoustic, or ELINT track that is not owned by the local host does not get propagated correctly throughout the MDXNet network. The track appears locally as a platform, with the respective link, acoustic, or ELINT associated to it. The other MDXNet nodes see the platform as a separate, unassociated track to the respective link, acoustic, or ELINT. Nu-Tracking a link, acoustic, or ELINT that the local host does own is propagated correctly throughout the MDXNet network.
- c. When an ambiguity is Nu-Tracked, the new track is sent via MDXNet and is received as forced ambiguity (Name) at the other nodes. If the track is then modified to include more information, another track is sent to the other nodes. This non-ambiguous track has the same UUID as the first track. If the user attempts to merge these two tracks, both are deleted.

- d. If a Nu-Tracked contact is updated on TopCop, another ambiguity on the child is created. The UID of the new ambiguity is a duplicate of the ambiguity created prior to the Nu-Track update. If any of the ambiguities are deleted on the child, the Nu-Tracked contact on the TopCop is deleted as well, leaving the other ambiguities on the child with the same UID.
  - e. Deleting a platform track with an associated track does not work properly. Upon deletion of this type of platform track, user is prompted: "Break Association?". If user selects "Yes", then the platform is deleted; but the associated track remains. The platform deletion is distributed back via MDXNet network, but it does not delete the platform track. It only breaks the association. Since the platform track remains, it is then distributed throughout the MDXNet, back to the node that originally deleted the platform. Hence to the user on the originally MDXNet node (the node deleting the platform track by hand), the platform is removed and then reappears.
  - f. Acoustic track associations are not distributed via MDXNet. Additionally, to prevent acoustic track associations via MDXNet, any data in a platform track's TRADEMARK field is not distributed by MDXNet.
- 3. The EDIT MDXNET window does not validate invalid port numbers; i.e., any numerical values are assumed to be correct.
  - 4. The EDIT MDXNet window will allow selection of MASTER NODE toggle with PARENT and LOCAL hosts set to different names.
  - 5. When the EDIT MDXNET window displays DECODER=NONE and ENCODER=NONE, the channel can be activated without a warning message to indicate that no data will be transmitted or received. With these settings, the raw data window still shows the interface up, status and data messages being passed to the parent, which may lead user to believe the channel is properly configured when it is not.
  - 6. Periodically, the warning of system times out of sync by > 60 seconds appears in the raw data window, even though the times are within 60 seconds.
  - 7. Search filter changes do not take effect until MDXNet is restarted.
  - 8. SPA25 Tracks are not sent over MDXNet.



**Enhanced Linked Virtual Information System (1.4.0.1:04/30/97) (LVIS)*****SEGMENT DESCRIPTION***

This segment uses the World Wide Web (WWW) technology to provide GCCS tactical displays and Status of Forces data (where available) to web browsers (supporting HTML 3.2 and the Frames extension). A CERN HTTPD web server is installed to service all browser requests; this web server can co-exist on a workstation with other web servers without conflict, assuming different port numbers are assigned to each web server.

The Enhanced Linked Virtual Information System (ELVIS) provides a capability to view tactical information in geographic plots and tabular displays resident in a Global Command and Control System (GCCS) host system using a commercial web browser compatible with HyperText Markup Language (HTML) version 3.2, as implemented in the popular browsers. ELVIS software runs on a GCCS host as a group of background processes and does not interfere with normal workstation operations (except for an additional CPU load when servicing browser requests).

ELVIS allows the user to plot selected track data and tactical overlays on high resolution maps. The user can perform a family of query and map manipulation operations, such as track hook, map zoom, and range/bearing calculations. System administration utilities are provided to configure and tune ELVIS. For security, a user login is required to gain access to the tactical information.

This segment should be loaded on all workstations.

***FIXES / NEW FEATURES***

This release updates the following:

1. Ported to UB 3.0.1.6GP4.
2. Fixes problems specific to COE compliance for GCCS 2.2 on HP-UX.
3. Fixes problems where selecting a rectangle which resulted from a "Show Map Coverage" operation drew the map to the right frame instead of the left frame.
4. An Air Tasking Order (ATO) capability is available, based on the ATOX+ component of UB. ATOs can be plotted on the ELVIS geographic chart, while textual data about the ATO is presented in a hyper-text format.
5. The user can select one of four different display sizes (if configured by the system administrator). Specifically, the four resolutions are tiny (200x100), small (400x300), medium (600x450), and large (800x600).

6. A TINY resolution (200x100) was added to the previous small, medium, and large resolutions to yield faster response to mapping requests for users with limited bandwidth.
7. A capability was added for a system administrator to "plug in" modules to provide Status of Forces (SOF) data. Specifically, the SOF options for SORTS, CASREP, MOVREP, and EMPSKD can be modified to access any CGI program.
8. The FRAMES tag has been implemented for use with Netscape Navigator (version 3.0 and higher) to improve the presentation for combined geographical and textual data. Due to problems with support for JavaScript in Microsoft's Internet Explorer (all versions), the FRAMES capability is not yet available for this web browser.
9. The ELVIS system administrator may select which UB Briefs are to be made available to ELVIS users.
10. The VCC (Virtual Command Center) GIF has been improved to provide a more modern appearance.

## ***INSTALLATION INSTRUCTIONS***

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**NOTE:** ATOX Plus, Version 1.1, must be installed.

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Step 1: Verify installation of required segment:  
UB Apps 3.0.1.6G.

Step 2: Install ELVIS 1.4.0.1.

The following will be presented to the installer:

ELVIS CLIENTS SHOULD CONNECT TO: HTTP://BRADY.IMS>DISA>MIL:9000. PLEASE  
REBOOT UPON COMPLETION OF THIS INSTALL.

OK

Selected segment(s) installed successfully.

OK

## ***KNOWN PROBLEMS***

This release contains the following:

1. Link-11 tracks are plotted, but the user cannot access the complete Link-11 data profile (available in UB).
2. The “show map coverage” option does not display coverage rectangles for CIB map products.
3. A user must be logged into the ELVIS server.
4. On a dual-eye HP hardware configuration, the first user to log in must remain logged in for ELVIS to continue servicing browser requests. Testing has not been performed on systems with more than two eyes.
5. At the end of an ELVIS installation, the text string “.domainname” may be displayed to the installer as part of the ELVIS URL; it should be replaced with the site domain. The URL should be distributed to all prospective users.
6. The number of users per ELVIS host is limited to 1000.
7. The user account options for priority and read-only/read-write are not implemented.
8. Declutter of track data around the edges of the tactical display may be incomplete, i.e., track labels may overlap.
9. During installation (or re-installation), the file is not preserved. Hence the system administrator must reset the desired values for GIF resolution sizes and desired CGIs for access to NSOF data.
10. The following two conditions occur (by design in order to improve system performance) when more than 250 contacts are displayed:
  - a. No track symbols are active but all displayed track name labels are active (and declutter will limit the number of labels).
  - b. The UNIT option will only provide a list of tracks whose labels are displayed. For example, a “whole world” display of 1,500 tracks will have no “hot” track symbols but may have 50 “hot” track name labels. In this case, the UNIT option provides a list of the 50 tracks with name labels. For a complete listing of all tracks, use the FIND option with an asterisk in the NAME field.
11. The behavior of Netscape Navigator and Microsoft Internet Explorer may be different due to different levels of support/compliance with web-based protocols and HTML specifications/extensions.
12. The introduction of the FRAME tag has created several problems which are inherent in the use of frames. For example, when the CUSTOM MAPS or PLOT CONTROL option is selected, the associated display control page is loaded into a frame other than the frame containing the tactical map

GIF. If the map is changed, the display control page is still pointing at the previous map GIF, so changing display settings will cause the previous map GIF to be displayed. Another problem associated with FRAMES is that if two users are accessing ELVIS via the same user account, map draw operations requested by the two users may conflict.

13. Due to the implementation of the ACTION tag, the capability to change the size of the tactical map GIF can only be "activated" by using one of the selections from the MAP OPTIONS pull-down. For example, if the user changes the setting for the map size (via the pull-down menu), then the CENTER or ZOOM options will cause the map GIF to be resized. The options in the toolbar (e.g., 2X or 4X) will not change the map size.

**EVAC (2.3.01:04/23/97) (EVAC)**

***SEGMENT DESCRIPTION***

EVAC is a Joint Staff and U.S. State Department automated computer database and retrieval system used to identify the number of potential evacuees located at each reporting foreign service post (e.g., embassy, consulate general, consulate, etc.) worldwide. EVAC gathers data from State Department formatted messages sent to the National Military Command Center (NMCC) and allows interested users to query the database and answer questions concerning requirements for planning an evacuation.

The EVAC client segment allows users to view and print US State Department noncombatant evacuation data, which is stored in the EVAC database.

This segment should be loaded on all user clients requiring EVAC.

***FIXES / NEW FEATURES***

This release updates the following:

1. Corrects a problem with the selection of a district name from a database that does not contain all data.
2. The EVAC system allows ordinary users of the system to display and print information about the numbers of various types of users of the system. It also enables display and printing of numbers of personnel that may require evacuation during times of crisis in various parts of the world.

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**NOTE:** The only change made, in this EVAC version (2.3.01) was a correction to the "ReleaseNotes" file.

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***INSTALLATION INSTRUCTIONS***

Step 1: Verify installation of required segments:  
GCCS 2.0.

Step 2: EVAC Client 2.3.01.

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

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GCCS-Solaris 2.2.2-Release Notes

rev 0

June 27, 1997

## ***USAGE***

This is the Gain Momentum Client portion of the EVAC system. This client will communicate with an Oracle SQL Server machine which contains the EVAC system data.

For operational GCCS Sites, the EVAC database is located on the NMCC Oracle SQL Server. For test and demonstration sites, a test EVAC database may be located on a local machine.

The *cron\_script* located in the Scripts directory should be submitted by only one user with access to the EVAC Database. Use the command "*crontab cron\_script*" to submit the job. The user who submits the cron job needs access to the EVAC Database. Do not submit the job as root.

For operational GCCS sites outside the NMCC you must use DBSelect from your GCCS Desktop to select the NMCC database. In order for you to access the database you must have a valid OPS\$ account on the NMCC database. Contact the NMCC system administrators for access to their database.

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EVAC-2

**GCCS COE Patch (1.0.02:06/17/97) (GCOEPTC)**

***SEGMENT DESCRIPTION***

The Global Command and Control system (GCCS) Common Operating Environment (COE) Patch (GCOEPTC), upgrades the functionality of a GCCS 2.2 machine with or without UB fully loaded.

All future GCOEPTC segments (e.g. GCOEPTC 2.0) will be rollups of all previous GCOEPTC segments, and the deinstall/reinstall will happen automatically when the new GCOEPTC is installed.

This segment should be loaded on any GCCS 2.2 system, whether UB is fully loaded or not.

***FIXES / NEW FEATURES***

This release updates the following:

1. Modified UB shutdown procedures to make use of the modified COEExecMgr (delivered with HP OS Patch 2.0 or Solaris Kernel Patch 2.0). Both the OS/Kernel patch and this GCCS COE Patch should be loaded on a GCCS 2.2 system.
2. Removed much needless complexity from the GCCS Main script, removing potential for meaningless dead process warning messages at session logout time. Also added functionality to activate COEExecMgr corrections (already included in an OS/Kernel patch).
3. In accordance with the Trusted Facilities Manual, removed the Oxhost +O entry from the .xsession.GCCS script in the GCCS Account Group.

***INSTALLATION INSTRUCTIONS***

Step 1: Verify installation of required system:  
Kernel Patch 3 (1.0); and  
GCCS COE 3.0.1.6.

Step 2: Install GCOEPTC 1.0.02.

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

**GCCS Synchronization Tool (5.6.1.2.01:04/18/97) (SYNCTOOLS)*****SEGMENT DESCRIPTION***

The Synchronization Tool is intended for use at the National Military Command Center (NMCC). The tool provides visibility of the synchronization status of requirements information (Time-Phased Force Deployment Data) within the network of GCCS JOPES databases worldwide.

This segment should be loaded on the NMCC JOPES DB Server.

***FIXES / NEW FEATURES***

This release updates the following:

1. Corrects *synctool\_screen\_driver* problem (widget server not running).
2. Provided the capability to compare two TPFDDs through an improved user interface than the scripts previously allowed.

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**NOTE:** This segment uses a modified version of *netscape.init* found in */h/COTS/WEBBr/progs*. This is necessary to pass arguments to the Netscape viewer. The modified version is stored in the */h/SYNCTOOLS/Scripts* directory.

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***INSTALLATION INSTRUCTIONS***

Step 1: Verify installation of required segments:  
GCCS COE 2.1.0.2;  
PERL 6.0; and  
WEBBr 2.0.1.

Step 2: Install SYNCTOOLS 5.6.1.2.01.

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

***KNOWN PROBLEMS***

You must add Sync Tools users's userid to local */etc/group* file in group gccs.



1. Security Markings:

- a. Screen display: The security markings on the SYNCTOOLS Screen do not change from unclassified, regardless of the classification of the OPLANs being compared.
- b. Printed Reports: Printed reports print with the Security Classification identified in the text, but the report does not contain header and footer security markings.

2. Navigation:

The SYNCTOOLS Screen contains the F10-Back function key. Activating this function closes the application without warning. SYNCTOOLS consists of only one screen, therefore there is not a need for the F10-Back function.

3. Exit Confirmation:

SYNCTOOLS F12-Exit immediately closes the application without warning. Also, the 'Esc' key will exit the application without warning.

**GSORTS Oracle Engine (3.2.01:05/15/97) (GUPD)*****SEGMENT DESCRIPTION***

This segment is the GSORTS database update software used for transaction processing. The GUPD 3.2 GSORTS Update Engine segment loads the Status of Resources and Training System (SORTS) reference and lookup tables in the Global Command and Control System (GCCS) ORACLE database. The update portion processes United States Message Text Format (USMTF) information to update the SORTS portion of the GCCS database. The segment includes software to flat file the SORTS portion of the GCCS database at any site and the ability to reload the SORTS portion of the GCCS site from another GCCS site. The ability exists to do counts of the SORTS update, reference and lookup table contents. The primary user is GSORTS Operations at the Pentagon. GSORTS Operations receives USMTF traffic from GCCS Automatic Message Handler and processes for distribution to the GCCS sites. The segment connects to GORA table definitions through the ORACLE LISTENER.

This segment should be loaded on all GSORTS database machine. This segment must be installed after GORA 3.2 is installed. During the install of GUPD 3.2.01 and GORA 3.2, the GSORTS database will be removed. System Administrators should review Section 12 of the System Administrative Manual Version 2.2 for information on rebuilding GSORTS databases.

***FIXES / NEW FEATURES***

This release updates the following:

1. A ROLE was created for the UPDATE users to replace the hard coded <userid>/<password> for the GSORTS UPDATE ENGINE. This required creating scripts to create, drop, and grant the UPDATE role after the role is first created and modifying database.pc to allow logging on for ORACLE access for sqlplus and sqlload with a simple “/” instead of <userid>/<password>.
2. Software modifications were made to prevent ORA-00001 unique constraint violation in Army unique updates containing duplicate keys.
3. Software modifications were made to prevent valid Army/Navy unique remarks data from being discarded during the processing of the reload\_oracle script.
4. Software modifications were made to prevent SPCAP and FLEET remarks from being eliminated by remarks\_ck.
5. Software module distr\_tbl.pc was modified to truncate the table instead of dropping it and module sb20.c was modified so it would not create the DISTR\_ADDR table.
6. Software modifications were made to prevent duplicate record transactions in the Army-unique 2ERCFOUR and 2EOHSHRT sets from causing core dumps in the SORTS Master Processor.

7. Software module blddistr.c was modified to add a check to see that the set\_name is NOT null and verify that the army\_err >=700 and <=950 instead of >=700 and <=899.
8. Software module army.c was modified to disallow more than 2 digits rather than 5 digits in the avail\_gentext\_edits function.
9. Software module bide.c was modified to add a check to verify that the function pointer for update\_date\_func is NOT null.

### ***INSTALLATION INSTRUCTIONS***

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**NOTE:** GUPD V3.0 segment should be deinstalled before installing the GUPD V3.2 segment.

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Step 1: Verify no users are logged onto the GSORTS Oracle database and that the user, gsrtsupd (Pentagon update account) is not logged in.

Step 2: Deinstall the following segments:  
GUPD V3.0

Step 3: Verify installation of required segments:  
GCCS COE 2.1;  
ORACLE Application Server Tools 7.1.4; and  
GSORTS ORACLE SERVER 3.0.

Step 4: Install GUPD V3.2.01.

The following will be presented to the installer:

```
Warning, xterm will be killed upon exiting this install window
gsrtsupd account already exists, do you want to delete the account(y/n)[n]
Warning,xterm will be killed upon exiting this install window
The following load warning files were created during oracle table load:
No match
(Hint: use the INSTALL XTERM to investigate,
      log load files can be found in /h/GUPD/data/dataload/log)
Enter <return> to continue
```

**KNOWN PROBLEMS**

This release contains the following:

**GSPR #    PROBLEM**

- G60615    ACC would like to see RAMP process the received/processed, errors, and data transactions (to include database reviews) to be included in one message, vice the three or four messages being sent to a specific unit. Currently, RAMP produces one message for the received/processed, errors, reviews, and data transactions.
- G60633    It is no longer possible to report a land location that is not registered in GEOFILE by using XXXX geo code that signifies 'unknown location' and providing a set of coordinates in the POINT field. The POINT field used to be both on the D (now ORGLOCN) and the DN1 (now SHIPLOCN) transaction types. POINT in GSORTS is found only on the SHIPLOCN set.
- G60635    Documentation for preparing SORTSREP sets needs to include the following:
- 1).    How to prepare a "delete" transaction for any SORTSREP set, and include what the "secondary controls" are to perform this function.
  - 2).    How to prepare a REMARKS transaction for all SORTSREP sets, showing how to "change" and "delete"; and the format for a REMARKS transaction (i.e. reporting the REMARKS transaction by itself or reporting the transaction after a particular set is reported in a message).
- G60704    RAMP produces a database review with the SORTUNIT set containing 'SEQNO' with the next report number in sequence. Have RAMP produce 'OVRRD' vice 'SEQNO' in generation of database reviews, so reviews do not go into error hold after processing the reviews out of the REVIEW queue in the COMMS Processor.
- G60710    Exact procedures and applicable software for data base synchronization are required. The exact procedures need to be described and put into a script so that the procedures can be utilized as required. Procedures include which tables to drop/truncate and recreate, which command line arguments to skip the appropriate service, which argument to load the specific service, and when to reload the plan status data.
- G60712    During processing of Army input transactions, the module ms aborted. The input file contained many long columnar sets. This prevents the creation of the matrix for this instance of the update and prevents the creation of the error matrix for this input file.
- G60714    USCINCPAC, Peter Cole (DSN (315) 477-7497), reported that the POINT data in the

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

ORGLOCN table for Army units were in error. The data for all Army units that had not been reported on were in the format "12345N123456W" with 3 trailing blanks. The correct format is "123456N 1234567W". The multload.c software needs to be modified prior to the next reload. In addition, an immediate sql solution should be generated.

- G60716 The distribution schema and its rationale must be reevaluated. Requirements generated by the GCCS SOP cannot be easily addressed. For example, sending only errors to any organization, tailoring DISTR for DISA processing of direct reported unit data, and processing of DB reviews from units to the JS DB to name a few.
- G60719 Mr Crutchfield reported that a unit submitted a MEQLOCN set that was followed by a LABEL/GENTEXT. The MEQLOCN set had several errors and was not distributed. The LABEL/GENTEXT was left in the file for distribution. The results was an OVERALL set that had a LABEL:MEPSD remark following. The error message "LABEL/GENTEXT SETS WERE NOT PROCESSED DUE TO THE ABOVE ERRORS" was not one of the errors for the MEQLOCN set.
- G60723 Pre-ramp aborted stating it could not combine 2 of the files "07 .dmp" and "07 .txn". These files had BLANK characters in the filename. The filenames should not have blanks but should have valid UICs that information is being sent to.
- G60750 The winsort, mtfsort, and prepsort files are empty. The files are used by script mshistory for first of the month processing to archive previous month statistics. The mshistory script is invoked in the gsupd.sun update script. Operator must type q or the automatic adplo update is aborted. The ADPLO questions must be run manually.
- G60753 blddistr aborted with a segmentation error processing the update of 11 September 1995. This was the evening update and the error occurred while processing M20360 report 105.
- G60754 If the operator selects to obtain a hard copy of the errors.trn file produced during the execution of gsupd.sun, the error messages are printed on every other page, resulting in considerable waste.
- G60770 AMC reported that they had a message that was not being processed by the system. They are trying to delete some remarks from the database. The input message was found in the AMHSIN/r085 directory. The message is 251613.019.
- G60771 The most recent version of prepmtdf will not execute on the WIS Workstation. The message "Usage: arg 3 is a Comms Proc comms\_line Can not find this comms line = SORTS\_IN Existing Comms Line =" appears on the screen and nothing else happens.
- G60827 The software module blddistr goes into a continuous loop.

**UNCLASSIFIED**

GUPD-4

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GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

G60868 Three of our units submitted a "Change" OVERALL with the following:  
OVERALL/S/C/RICDA:960506/TREAD:72HRS/READY:1/REASN:Z/SECRN:RUP//  
PERSONNEL/PRRAT:1/-//

EQSUPPLY/ESRAT:6/ESRES:SNM//  
EQCONDN/ERRAT:6/ERRES:RNM//  
TRAINING/TRRAT:1/-//

Units should have received an error message since the "Z" can only be used when the Commander upgrades to a C-1 and any one of the measured areas is a 6.

G60871 Direct unit reporting (DUR) by Air Force units means that SORTS distribution going back to the MAJCOMs and HQ USAF (i.e., received & processed messages) has no identifier indicating which unit submitted the subject report. All such distribution going back should include the appropriate UIC as part of the message for identification purposes.

G60879 RAMP produced messages with a stray AUTODIN trailer after the PLA data.

G61037 Software used to support SORTS and GSORTS on the Sun platforms and the WWS does not correctly handle dates for the year 2000 and beyond.

G61038 Sorting units by MAJCOM is difficult, but not impossible. Very few functional users know how to do this though. I limit the MAJCOM to 'FFJDL0' and can extract the ACC units from the SORTS database. To make this function more obvious to the users, I would like to see the various MAJCOMs listed in the "Unit Criteria" window right under "All Air Force Units".

G61039 Sorting the output: We need a more complex method of sorting the query output. Ordering the query by the first column is not enough. I require the capability to sort the output by multiple factors (e.g., first by UTC, then by ANAME, then by MAJCOM/Component etc.). Excel can do this now. The capability to sort and re-sort the query output would be most helpful.

G61040 Under the "Unit Criteria," have the menu set up to mirror the DOC ID table or unit types. Many unit types are missing from the current list. Also, the aircraft types do not match the current Air Force structure. We no longer have "Tactical Fighter Squadrons" and "Fighter Interceptor Squadrons."

G61044 During testing of parsemtf for ECP96007, the software did not function as described. The message cat: cannot open MSGID, cat: cannot ... was displayed. The test was being ran in the */users/GUPDTST* environment.

G61047 Sorting units by Component (active, guard, reserve) has proved to be impossible with GIQS. The interest fields may be helpful if we could make an "OR" statement work.

UNCLASSIFIED

GUPD-5

- G61052 AF site sent in change BIDE transaction, it stopped update with reported error on RPTNORG. The UIC did not exist in database before update. In case sited, site submitted two identical Change BIDE with only field entered was MAJCOM. i.e. BIDE/U/C/.../MJCOM:FFQT10//
- G61053 Site reloads are failing (both 1.2 and 2.0 sites) with duplicate OVERALL record and constraint violation. Isolated problem to duplicate OVERALL for UIC, TREAD for UIC "M00541". The record is duplicate on txncr2 and will not reload on GCCS platforms from sortsdb.mtf file.
- G61054 Update receives an ORA-0001 unique constraint (GSORTS.RPTNORG\_PK) violated error and halts update process. Reports that problem with BIDE processing, the record works on WIS platforms at USSPACE and HQAF.
- G61103 During testing of ECP 96008 , one SHIPLOCN set had in the NDEST field the a value of SECT-9-9-MAP-9E. The error message said INVALID GEO COORDS, FORMAT MUST BE DDMMSSHHDDMMSSH. The processor took the 'E' in the input and interpreted it as 'East', and began coordinate format validation.
- G61105 Redesign SORTS database updates to use Oracle 7 mirroring of all sites with the Master SORTS Database. The fix required would be to redesign the current SORTS database processing concept and update the software and supporting processes to support update of the Master SORTS Database and then mirror it out to all GCCS site databases.
- G61106 SORTS is required to have a capability to support command center exercises. Create an exercise database for the GCCS environment, modify SORTS processing code to support exercise transactions and handle the requisite date compression algorithms.
- G61107 Modify SORTS to utilize Navy ship location data (OTH-Gold information). Change the applicable SORTS modules to look at the applicable JMCIS data locations in the GCCS database for Navy ship location data without actually storing said data in the SORTS database.
- G61108 SORTS processing and user interface code must be modified to link to a single instance of all reference tables in GCCS (i.e., TUCHA, PORTS, GEOFILE).
- G61115 During installation of the GUPD segment, SORTS loads a flat file of GEOFILE and TUCHA data. This data is part of the install segment of GUPD. The GEOFILE and TUCHA data is updated (usually quarterly). Depending on the time the segment was installed at a site, this data no longer could be current. This would put the SORTS GEOFILE and TUCHA data out of sync with the GCCS CORE table GEOFILE and TUCHA data. The files that install the data are /h/GUPD/data/dataload/load\_geofile and /h/GUPD/data/dataload/load\_tucha. The data resides in file /h/GUPD/data/dataload/data/geo.seq and /h/GUPD/data/dataload/data/tucha.seq. Recommend that SORTS uses the GCCS CORE data as opposed to creating their own view. This may be hard to do if the site being installed is not a GCCS Core database site. Another approach

would be to export the flat file from the GCCS CORE database data being used at the site and loading that data to the SORTS Oracle GEOFILE and TUCHA table spaces during install. There would also be a need to update this data during GEOFILE and TUCHA update cycles. SORTS modifies their data daily and they could keep the data current. If that were the case, they should not include reference data loads within the install, but as part of their update cycle.

- G61116 Scripts using ORACLE sqlload aborts with permissions denied. The files under scripts /h/COTS/ORACLE/bin/sqlload, and SQL\*Loader doesn't have execute permissions. On checking, all sites did not have execute permissions on the files. Might want to check the install of the Oracle tools to see if it allows execute permission. Per QA, the week before this surfaced, there was not a problem on executing sqlload and sqlldr. Work around is to do a chmod to give execute permissions to these files.
- G61123 There is a limitation problem with the ORUIC option under the SUBJECT selection in XSM. The last UIC on the list is FFL7T0--there are no Army or Navy UICs at all. It is therefore not possible to bump counters or do audit trails on UICs that follow FFL7T0 alphabetically. An entry typed in the "Search For" box is not accepted if it is not on the ORUIC list. Check the other option for size limitations also.
- G61132 The "blddistr" had an abort and terminated the "sortsupd.amhs" when it encountered a set from the Air Force with "SORTSREPAF1" in MSGID Set. The system had flagged the set as an error and it was in "error.trn". The abort occurred when "blddistr" attempted to remove the set and it was unable to recognize the set it was removing.
- G61133 The "blddistr" and "debuglib" cause an infinite printing loop while trying to isolate "blddistr" processing abort. Run "blddistr -dbg4" with inputs of "vldmtf.trn", "error.trn" and "warning.out". The "blddistr.dbg" file in the SOURCE\_DIR continues to grow until the disk runs out of space and system stops processing. The problem caused by non-terminated set, it had no double slash "/" and it was not followed by a "DECL" terminating set.
- G61138 On several occasions, a number of messages have made it to their respective "oruic" directory (e.g., /oruic/W0ZUFF). A method needs to be developed so as to be able to track incoming messages from the AMHS to the SCP. This will insure each message received will be processed.
- G61139 When a SORTS USMTF message is sent to us with the "AMPN/SORTS DISTRIBUTION" line, distribution does not occur.
- G61155 The Joint Staff and the Armed Services have identified new functionality that will be required within the SORTS application. Currently, when a unit reports a SORTS message from a home site (i.e., MAJCOM), the Report and Message Processor (RAMP) distribution returns the originating (home site) location. That's because there exists a Routing Indicator (RI) and/or Plain Language Address (PLA) for that unit. Now, if that unit deploys temporarily to another site and sends a



SORTS message from that deployed location for processing, the deployed unit does not receive a RAMP message back because there is no RI and/or PLA for that unit at the deployed location. Within both the MTF and JRS messages, there are lines of RIs and/or PLAs for AUTODIN (AMHS) that specify the SORTS message origin and destination. Currently the Joint SORTS processor strips these AUTODIN lines out of the messages before processing, thus losing the origin of the message. To determine the destination for the RAMP, the sending unit's UIC is mapped to a RI and/or PLA record for that UIC, returning the RAMP to that unit's previously assigned origin. Not deployed location! The SORTS processor application isn't designed to process these AUTODIN lines, otherwise the risk of Joint database corruption is at a high. Code must be developed to dissect a SORTS message, capture the deployed unit's origin portion of the AUTODIN message and use it to return the RAMP distribution back to the original sender's deployed location. Once this is achieved, then the optional decision can be made as to whether a courtesy copy of the RAMP distribution should be sent back to the unit's home location.

- G61171 When AMHS receives part of a sectionalized message, it places lines before and after the message that state "Section x missing". These lines are preceded by several greater than signs. These lines are not being removed before the module parsemtf gets them. Parsemtf does not handle these lines and messages are being lost.
- G61186 The master GSORTS application does not verify that the agency or unit originating a SORTS report is authorized to report data for the unit(s) in the report; i.e., a report from any source will be processed and posted to the database. Consequently, another MAJCOM has deleted data from AFSPC units. Additionally, Air Force unique data has been posted to some marine units.. Solution/recommendation: Modify the software to verify originators for reports are authorized to submit data for the units in the report. One method to do this for Air Force units would be to verify the SORTUNIT in the report is either the unit's subordinate reporting organization.
- G61187 When the master GSORTS application receives a report for a unit that is not registered in the database, it ceases to process the report and gives no indication of what the problem is. This has caused DISA and HQAFSPC/DOCO a large number of man-hours over a four month span to ascertain what the problem with the report is. Solution/recommendation: Modify the software to recognize the unit in the report is destined for is not registered and generate an error report to the SORTUNIT (originator of the report) notifying them the UIC is not registered.
- G61194 I have not been able to determine why certain UICs do not generate ramp messages. Specifically, Review set ramp messages. I know of one reason (space availability) why this may occur, but it doesn't explain why it is happening all the other times. I can provide a list of UICs that have received 'received and processed' ramp messages but no review set ramps.
- G61203 SCP error hold resolution process does not reconcile messages processed against messages in error hold. Example: Current report sequence number is 15. Incoming messages of 16 through 20 are received and placed in error hold flagged as awaiting missing report #15. Next update cycle,

incoming messages of 15 through 22 are received and processed. Error hold still contains messages 16 through 20 with error message of need missing report. RAMP for first update cycle sent message indicating msg 16 through 20 in error hold. RAMP for second update cycle send msg indicating Msg 16 through 22 received and processed PLUS message indicating that Msg 16 through 20 are in error hold. Units are now confused and resubmit whole batch of messages which drop into error hold as DUPs and RAMP send msgs with same error hold plus dups. Process should be interactive check against incoming and error hold contents. This will slow down processing, but produce gains in error resolution and less operator intervention.

- G61222 Within the 'GSORTS' update edit procedure protocol, the only unit that should be able to update a 'UNIT's' SORTS report is RPTOR or SUBRPTOR. These are the Unit Identification Codes (UIC) identified on BIDE and RPTNORG. This function is not working, anyone can submit an update on any unit which creates problems when the Reported UIC (RPTDUIC) is not what was meant to be submitted, such as someone transposing a UIC.
- G61253 User reports that it appears that the software used to create ramp messages for a unit and its MAJCOM doesn't seem to work correctly. User was able to create good ramp messages for the unit but not for the MAJCOM. The UIC user used to determine this problem was M13130. MS4000 is the MAJCOM and was placed correctly in the uicom.dat file.
- G61254 User reports that their software breaks up outgoing (RAMP) messages so that they are no longer than 488 lines. Occasionally, the software will break a message in the middle or a UIC review so that half the data is in one message and the other half is on another message. In addition, it sends these messages in any order it wishes. Because of this, the receiving comms center will receive data not only split but out of order.
- G61255 User reports that every once in a while, when the SCP is started an error will appear stating 'error Q and .MPF file mismatch one or more files deleted'. This causes some problems when trying to fix errors as it creates blank lines within the error queue.
- G61258 A unit had more than 10 aircraft assigned (authorized) and less than 9 possessed. The equipment on hand percentage was calculated using poss/auth which is correct. AFSORTSDET then calculated equipment condition as avail/poss but the SORTS processor was expecting the unit to use the small equipment table. The error message received was: AMPN/EQREE MUST EQUAL VALUE FROM PERCENTAGE MATRIX FOR NINE OR LESS ITEMS.
- G61316 Software module prepmf aborts when it encounters a SORTUNIT set where the field SEQNO/OVRRD field name is misspelled.
- G61318 SB50MTF allows a REVIEW Set that does not have a TARGT field to pass through the system. This causes a file to be created in the RAMP directory (for ramp processing) with a filename that is not a valid UIC. The message cannot be processed and the REVIEW is not completed.

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

- G61372 ALTYP, FLAG, RESND scrub needs to be applied to SORTS. The fields were retained but identified as spare fields available for use. The reference tables, ALTYP and FLAG, need to be deleted from Database Specification and change applied to source, dataload, and dataload/data. Reference files need to be deleted from GORA/cr and field definitions corrected in GORA/siq directory and GSORTS/data/giqs/Schema.
- G61377 On 3 December 1996, ramp aborted with a segmentation fault. It was noted that the declassification line (DECL) in at least two messages were incorrect. One was DECU/ and the other was DECC/.
- G61389 GIQS aborts when the edit condition for the new Army-unique data fields is set to check for non-null fields. All values for the new fields are null in Oracle 7 until an update is completed on the unit. A test of both SBRPT2 on RPTNORG and ARGO on RESERVES caused aborts. The nulls must be trapped.
- G61395 Attempted TST-119 on Sun for RAMP with uicom.dat file without plad.dat merged. All messages were identified that "plain language address not found". The test was written when uicom.dat and plad.dat were two entities. No output traffic is produced, Segmentation fault error on "fgets" in RAMP at line 2655.
- G70003 At the SORTS URP (21-22 Mar 96), the Navy requested and the URP voted approval to configure SORTS to accept the Navy SORTS Reason Code convention to retain the Navy's more specific reason definitions. The Navy recommends that Joint Reason Codes be standardized to the Navy's schema.
- G70010 Lack of historical capability within GSORTS application. Current historical capability is offline and requires manual intervention to transfer file from GCCS platform. Files must be created by JSSC Operations staff (WEY222) and passed to POC30 @ HQ, USMC.
- G70011 The Army SORTS (ASORTS) system handles the Validation transaction in a cycle from the 18th of Month A to the 10th of Month B. As such, ASORTS sets the RICDA for that unit to the 15th of Month A whenever a VALID is submitted. J38 requires that the Joint SORTS processor implement a change that supports the Army's processing methodology for Validation transactions-- but only for Army units. Any VALID submitted from any non-Army unit will continue to be accepted and processed as they are currently.
- G70017 XSM Retransmit Message does not work with the AMHS messages. The JSSC operators are forced to manually retransmit messages from the archive directory.
- G70035 SORTS Update (sortsupd) at all GCCS sites produced "Segmentation Fault - core dumped" with program /h/GUPD/data/source/errmtf. Message reads: ERROR:program:/h/GUPD/data/source/errmtf FAILED with .139 code The software is trying to

**UNCLASSIFIED**

GUPD-10

convert N0220 error into English equivalent.

- G70059 A discrepancy has been found in the 'rec407.pc' file. There are two update dates functions. One is 'update\_asi\_shrtg\_date' that updates the ARMY\_STAT\_RPT\_DATE in the OVERALL record. The other is 'update\_asishrtg\_date' that updates the ARMY\_STAT\_RPT\_DT in the UN\_RPTD\_ASI\_SHRTG record. When the 'VALID' option is used on the RPTDUIC line, the update process aborts.
- G70060 When an Army error is encountered in the update process, the error message is to be produced but the transaction is to be distributed if there are no Joint errors found. The software module blddistr.c removes the transaction that caused the error, but leaves any remarks that may accompany that record--thus leaving fragmentary and hanging remarks in the database.
- G70061 Running SORTSUPD on "coven" gets ORA-00001 unique constraint violation on GSORTS.UN\_RPTD\_MOS\_SHRTG\_PK that causes the update to stop with ERROR: program:/h/GUPD/data/source/sb50mtf FAILED with exit code 255.
- G70075 The PLAN STATUS table in the SORTS DB is populated with old data. This table must contain the current OPLAN data for the applicable UICs IAW Pub 1-03.3.
- G70091 A lot of time is spent creating messages to interested commands that are not sent out by ramp. If the word EXCLUDE is found in the unit's Routing Indicator Code, the message is deleted and not transmitted. There are over 100 units in the uicom.dat file used by operations. Especially during the processing of Army reports, huge files are created for CINCS and interested commands that are not transmitted. These units should be removed from the distr\_addr table prior to execution of sb23 and sb24 (delete, dumps, and transactions). If this was accomplished, the data would not be created.
- G70094 During testing of ECP #96044, a problem was discovered with 'load\_geofile'. It failed to recreate the GEO table.
- G70095 Joint Publication 1-03.3, Table I-2 states that the following JOPES Data Labels are pulled into SORTS: UIC, PID, ULN, PUTC, PRORG, RDD, LAD, RLD, and ALD. Current review of various Unit SORTS reports shows that the last time this information was updated was 26 Jul 96. As a result, the current information is old, obsolete, and confusing to those that have to use this information. It was argued at the URP that the requirement for this information no longer exists because JOPES information now resides on GCCS. However, not all SORTS users are authorized JOPES users and the information on the SORTS report provides an easy validation tool for individual users and commanders.
- G70097 SORTS processing and user interface code must be modified to link to a single instance of the PORTS reference table in GCCS. For more details refer to ECP #96029 which corrected this

problem for TUCHA and GEOFILE.

- G70098 SORTS processing and user interface code must be modified to link to a single instance of the APORTS reference table in GCCS. For more details, refer to ECP #96029 which corrected this problem for TUCHA both GEOFILE.
- G70099 Using XSM, there is a problem when a user selects a function that brings up an xterm window that requires user input. The problem occurs when a user types something in the xterm window and then presses the backspace/delete key to correct a type-o or something. When the text is displayed in the text area of XSM, the backspace/delete character is displayed. In other words all characters typed will be displayed on the text area.
- G70115 The Bump Counter Pop window is not displayed correctly the second time its displayed. The second time the window is displayed, the separator bar is at the top and the "Keep" & "Cancel" buttons stretch from the separator bar to the bottom of the screen. The four fields used to bump the values are scrolled off the top of the pop window. To work around the problem vertically resize the bump counter window until the four fields are visible and enter bump values. After doing that, if you call the bump counter a third time the Keep and Cancel buttons will be the length of the resized window. To work around that problem just vertically reduce the size of the bump counter window, cancel out and follow the first work around.
- G70116 During the update at the Pentagon after loading SORTS 7.0.1/GSORTS 3.0 the program blddistr aborted with a segmentation fault.
- G70117 The SORTS Master Processor aborts with an Oracle error while updating the Army-unique NONDEPE field. The Army submitted transaction improperly attempts to input a 3-digit input into a 2-digit field. The 'army.c' module must be modified to trap the error and return the transaction to the Army for correction.
- G70150 The 'sb50mtf' module aborts during a normal update cycle because the 'bide.c' function is failing to properly check for a null function pointer for the Army-unique date field in a VALID transaction.
- G70151 J38 and J6 require that the SORTS processor be changed back to leave the outgoing routing Indicator Code (RIC) on the message as well as the unit's Plain Language Address (PLA). The current practice of replacing the unit's known RIC with the PTC lookup RIC is to be halted.
- G70152 PLAN STATUS data should not be sent out to the units with SORTS Distribution.
- G70154 The software modules sb20.c, sb23.c, sb24.c, and blddistr.c are part of the distribution scheme to insure that other databases are kept current. This was the process used when many sites around the globe were processing initial input from reporting units. Now that sites are only reporting to the site located in the Pentagon (TXNCR2), there is absolutely no requirement or need for database

deletes and dumps for interested commands (sb23) or transaction distribution (blddistr and sb24).

Recommend removing the following modules from the script sortsupd.amhs: sb20.c, sb23.c, sb24.c, and blddistr.c. The only distribution that would be left is errors, received and processed reports, and database reviews.

- G70181 When the Comms Processor determines that a message has a format error, one of several messages are produced. The most frequent are SET NAME ILLEGAL, MISSPELLED, OR OUT OF ORDER and SET HAS TOO MANY FIELDS . The message that is created by errhldmsg that is distributed to the originator contains a SORTUNIT// set, the AMPN/ SORTUNIT SET followed by the error. HQMC is unable to determine the originator, or the problem with the data supplied.
- G70182 XSM does not have an interface for running the scripts to upload JOPES OPLAN data into PLAN STATUS.

**GSORTS Oracle Engine Patch 1 (3.3:05/21/97) (GUPD.P1)*****SEGMENT DESCRIPTION***

GUPD 3.3 GSORTS Update Engine segment loads the Status of Resources and Training System (SORTS) reference and lookup tables in the Global Command and Control System (GCCS) ORACLE database. The update portion processes United States Message Text Format (USMTF) information to update the SORTS portion of the GCCS database. The segment includes software to flat file the SORTS portion of the GCCS database at any site and the ability to reload the SORTS portion of the GCCS site from another GCCS site. The ability exists to do counts of the SORTS update, reference and lookup table contents. The primary user is GSORTS Operations at the Pentagon. GSORTS Operations receives USMTF traffic from GCCS Automatic Message Handler and processes for distribution to the GCCS sites. The segment connects to GORA table definitions through the ORACLE LISTENER.

This segment should be loaded on all GSORTS database machines. This segment must be installed after GORA 3.2 is installed. During the install of GUPD 3.2.01 and GORA 3.2, the GSORTS database will be removed. System Administrators should review Section 12 of the System Administrative Manual Version 2.2 for information on rebuilding GSORTS databases.

***FIXES / NEW FEATURES***

This release updates the following:

The GUPD V3.3 segment corrects the load-geofile script problem.

***INSTALLATION INSTRUCTIONS***

Step 1: Verify no users are logged onto the GSORTS Oracle database and that the user, gsrtsupd (Pentagon update account) is not logged in.

Step 2: Verify installation of required segments:  
GCCS COE 2.2;  
ORACLE Application Server Tools 7.1.4; and  
GSORTS Update Engine 3.2

Step 3: Install GUPD.P1 (3.3).

The following will be presented to the installer:

Warning, xterm will be killed upon exiting this install window

gsrtsupd account already exists, do you want to delete the account (y/n)[n]

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

**KNOWN PROBLEMS**

This release contains the following:

**GSPR #    PROBLEM**

G60633	It is no longer possible to report a land location that is not registered in GEOFILE by using XXXX geo code that signifies 'unknown location' and provides a set of coordinates in the POINT field. The POINT field used to be both on the D (now ORGLOCN) and the DN1 (now SHIPLOCN) transaction types. POINT in GSORTS is found only on the SHIPLOCN set.
G60635	Documentation for preparing SORTSREP sets needs to include the following:  1). How to prepare a "delete" transaction for any SORTSREP set, and include what the "secondary controls" to perform this function are.  2). How to prepare a REMARKS transaction for all SORTSREP sets, showing how to "change" and "delete"; and the format for a REMARKS transaction (i.e. reporting the REMARKS transaction by itself or reporting the transaction after a particular set is reported in a message).
G60710	Exact procedures and applicable software for data base synchronization are required. The exact procedures need to be described and put into a script so that the procedures can be utilized as required. Procedures include which tables to drop/truncate and recreate, which command line arguments to skip the appropriate service, which argument to load the specific service, and when to reload the plan status data.
G60712	During processing of Army input transactions, the module ms aborted. The input file contained many long columnar sets. This prevents the creation of the matrix for this instance of the update and prevents the creation of the error matrix for this input file.
G60714	USCINCPAC reported that the POINT data in the ORGLOCN table for Army units were in error. The data for all Army units that had not been reported on were in the format "12345N123456W" with 3 trailing blanks. The correct format is "123456N 1234567W". The multload.c software needs to be modified prior to the next reload. In addition, an immediate sql solution should be generated.
G60716	The distribution schema and its rationale must be reevaluated. Requirements generated by the GCCS SOP cannot be easily addressed. For example, sending only errors to any organization, tailoring DISTR for DISA processing of direct reported unit data, and processing of DB reviews from units to the JS DB to name a few.

**UNCLASSIFIED**

GUPD.P1-2



G60719	It was reported that a unit submitted a MEQLOCN set that was followed by a LABEL/GENTEXT. The MEQLOCN set had several errors and was not distributed. The LABEL/GENTEXT was left in the file for distribution. The result was an OVERALL set that had a LABEL:MEPSD remark following. The error message "LABEL/GENTEXT SETS WERE NOT PROCESSED DUE TO THE ABOVE ERRORS" was not one of the errors for the MEQLOCN set.
G60753	blddistr aborted with a segmentation error processing the update of 11 September 1995. This was the evening update and the error occurred while processng M20360 report 105.
G60754	If the operator selects to obtain a hard copy of the errors.trn file produced during the execution of gsupd.sun, the error messages are printed on every other page, resulting in considerable waste.
G60827	The software module blddistr goes into a continuous loop.
G60868	Three units submitted a "Change" OVERALL with the following: OVERALL/S/C/RICDA:960506/TREAD:72HRS/READY:1/REASN:Z/SECRN:RUP// PERSONEL/PRRAT:1/-// EQSUPPLY/ESRAT:6/ESRES:SNM// EQCONDN/ERRAT:6/ERRES:RNM// TRAINING/TRRAT:1/-// Units should have received an error message since the "Z" can only be used when the Commander upgrades to a C-1 and any one of the measured areas is a 6.
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G61039	Sorting the output: We need a more complex method of sorting the query output. Ordering the query by the first column is not enough. I require the capability to sort the output by multiple factors (e.g., first by UTC, then by ANAME, then by MJCOM/Component etc.). Excel can do this now. GIQS cannot. Also, being able to sort and re-sort the query output would be most helpful.
G61040	Under the "Unit Criteria," have the menu set up to mirror the DOC ID table or unit types. Many unit types are missing from the current list. Also, the aircraft types do not match the current Air Force structure. We no longer have "Tactical Fighter Squadrons" and "Fighter Interceptor Squadrons." Should be corrected.
G61044	During testing of parsemtf for ECP96007, the software did not function as described. The message cat: cannot open MSGID, cat: cannot ... was displayed. The test was being run in the /users/GUPDTST environment.

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

G61047	Sorting units by Component (active, guard, reserve) has proved to be impossible with GIQS. This is a MUST HAVE capability. The interest fields may be helpful if we could make an "OR" statement of work.
G61103	During testing of ECP 96008 , one SHIPLOCN set had in the NDEST field a false value of SECT-9-9-MAP-9E. The error message said INVALID GEO COORDS, FORMAT MUST BE DDMMSSHDDMMSSH. The processor took the 'E' in the input and interpreted it as 'East', and began to coordinate format validation.
G61105	Redesign SORTS database updates to use Oracle 7 mirroring of all sites with the Master SORTS Database. The fix required would be to redesign the current SORTS database processing concept and update the software and supporting processes to support update of the Master SORTS Database and then mirror it out to all GCCS site databases.
G61106	SORTS is required to have a capability to support command center exercises. Create an exercise database for the GCCS environment, modify SORTS processing code to support exercise transactions and handle the requisite date compression algorithms.
G61107	Modify SORTS to utilize Navy ship location data (OTH-Gold information). Change the applicable SORTS modules to look at the applicable JMCIS data locations in the GCCS database for Navy ship location data without actually storing said data in the SORTS database.
G61116	Scripts using ORACLE sqlload aborts with permissions denied. The files under scripts /h/COTS/ORACLE/bin/sqlload, and SQL*Loader doesn't have execute permissions. On checking, all sites did not have execute permissions on the files. Check the install of the Oracle tools to see if it allows execute permission. Per QA, the week before this surfaced, there was not a problem on executing sqlload and sqlldr. Work around is to do a chmod to give execute permissions to these files.
G61132	The "blddistr" had an abort and terminated the "sortsupd.amhs" when it encountered a set from the Air Force with "SORTSREPAF1" in MSGID Set. The system had flagged the set as an error and it was in "error.trn". The abort occurred when "blddistr" attempted to remove the set and it was unable to recognize the set it was removing.
G61133	The "blddistr" and "debuglib" cause an infinite printing loop while trying to isolate "blddistr" processing abort. Run "blddistr -dbg4" with inputs of "vldmtf.trn", "error.trn" and "warning.out". The "blddistr.dbg" file in the SOURCE_DIR continues to grow until the disk runs out of space and system stops processing. The problem caused by non-terminated set, had no double slash "/" and it was not followed by a "DECL" terminating set.
G61138	On several occasions, a number of messages have made it to their respective "oruic" directory (e.g., /oruic/W0ZUFF). A method needs to be developed so as to be able to track incoming messages from the AMHS to the SCP. This will insure each message received will be processed.

**UNCLASSIFIED**

GUPD.P1-4

G61155	<p>The Joint Staff and the Armed Services have identified new functionality that will be required within the SORTS application. Currently, when a unit reports a SORTS message from a home site (i.e., MAJCOM), the Report and Message Processor (RAMP) distribution returns the originating (home site) location. That's because there exists a Routing Indicator (RI) and/or Plain Language Address (PLA) for that unit. Now, if that unit deploys temporarily to another site and sends a SORTS message from that deployed location for processing, the deployed unit does not receive a RAMP message back because there is no RI and/or PLA for that unit at the deployed location. Within both the MTF and JRS messages, there are lines of RIs and/or PLAs for AUTODIN (AMHS) that specify the SORTS message origin and destination. Currently the Joint SORTS processor strips these AUTODIN lines out of the messages before processing, thus losing the origin of the message. To determine the destination for the RAMP, the sending unit's UIC is mapped to a RI and/or PLA record for that UIC, returning the RAMP to that unit's previously assigned origin. Not deployed location. The SORTS processor application isn't designed to process these AUTODIN lines, otherwise the risk of Joint database corruption is at a high. Code must be developed to dissect a SORTS message, capture the deployed unit's origin portion of the AUTODIN message and use it to return the RAMP distribution back to the original sender's deployed location. Once this is achieved, then the optional decision can be made as to whether a courtesy copy of the RAMP distribution should be sent back to the unit's home location.</p>
G61171	<p>When AMHS receives part of a sectionalized message, it places lines before and after the message that state "Section x missing". These lines are preceded by several greater than signs. These lines are not being removed before the module parsemtf gets them. Parsemtf does not handle these lines and messages are being lost.</p>
G61186	<p>The master GSORTS application does not verify that the agency or unit originating a SORTS report is authorized to report data for the unit(s) in the report; i.e., a report from any source will be processed and posted to the database. Consequently, another MAJCOM has deleted data from AFSPC units. Additionally, Air Force unique data has been posted to some marine units.. Solution/recommendation: Modify the software to verify originators of reports which are authorized to submit data for the units in the report. One method to do this for Air Force units would be to verify if the SORTUNIT in the report is the unit's subordinate reporting organization.</p>

G61203	SCP error hold resolution process does not reconcile messages processed against messages in error hold. Example: Current report sequence number is 15. Incoming messages of 16 through 20 are received and placed in error hold flagged as awaiting missing report #15. Next update cycle, incoming messages of 15 through 22 are received and processed. Error hold still contains messages 16 through 20 with error message of need missing report. RAMP for first update cycle sent message indicating msg 16 through 20 in error hold. RAMP for second update cycle send msg indicating Msg 16 through 22 received and processed PLUS message indicating that Msg 16 through 20 are in error hold. Units are now confused and resubmit whole batches of messages which drop into error hold as DUPs and RAMP send msgs with same error hold plus dups. Process should be interactive check against incoming and error hold contents. This will slow down processing, but produce gains in error resolution and less operator intervention.
G61222	Within the 'GSORTS' update edit procedure protocol, the only unit that should be able to update a 'UNIT's' SORTS report is RPTOR or SUBRPTOR. These are the Unit Identification Codes (UIC) identified on BIDE and RPTNORG. This function is not working, anyone can submit an update on any unit which creates problems when the Reported UIC (RPTDUIC) is not what was meant to be submitted, such as someone transposing a UIC.
G61254	User reports that their software breaks up outgoing (RAMP) messages so that they are no longer than 488 lines. Occasionally, the software will break a message in the middle or a UIC review so that half the data is in one message and the other half is on another message. In addition, it sends these messages in any order it wishes. Because of this, the receiving comms center will receive data not only split but out of order.
G61255	User reports that occasionally, when the SCP is started an error will appear stating 'error Q and .MPF file mismatch one or more files deleted'. This causes some problems when trying to fix errors as it creates blank lines within the error que.
G61258	A unit had more than 10 aircraft assigned (authorized) and less than 9 possessed. The equipment on hand percentage was calculated using poss/auth which is correct. AFSORTSDET then calculated equipment condition as avail/poss but the SORTS processor was expecting the unit to use the small equipment table. The error message received was: AMPN/EQREE MUST EQUAL VALUE FROM PERCENTAGE MATRIX FOR NINE OR LESS ITEMS.
G61318	SB50MTF allows a REVIEW Set that does not have a TARGT field to pass through the system. This causes a file to be created in the RAMP directory (for ramp processing) with a filename that was not a valid UIC. The message cannot be processed and the REVIEW is not completed.

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

G61372	ALTYP, FLAG, RESND scrub needs to be applied to SORTS. The fields were retained but identified as spare fields available for use. The reference tables, ALTYP and FLAG, need to be deleted from Database Specification and change applied to source, dataload, and dataload/data. Reference files need to be deleted from GORA/cr and field definitions corrected in GORA/siq directory and GSORTS/data/giqs/Schema.
G61395	Attempted TST-119 on Sun for RAMP with uicom.dat file without plad.dat merged. All messages were identified that "plain language address not found". The test was written when uicom.dat and plad.dat were two entities. No output traffic is produced, Segmentation fault error on "fgets" in RAMP at line 2655.
G70003	At the SORTS URP (21-22 Mar 96), the Navy requested and the URP voted approval to configure SORTS to accept the Navy SORTS Reason Code convention to retain the Navy's more specific reason definitions. The Navy recommends that Joint Reason Codes be standardized to the Navy's schema.
G70010	Lack of historical capability within GSORTS application. Current historical capability is offline and requires manual intervention to transfer file from GCCS platform. Files must be created by JSSC Operations staff (WEY222) and passed to POC30 @ HQ, USMC.
G70011	The Army SORTS (ASORTS) system handles the Validation transaction in a cycle from the 18th of Month A to the 10th of Month B. As such, ASORTS sets the RICDA for that unit to the 15th of Month A whenever a VALID is submitted. J38 requires that the Joint SORTS processor implement a change that supports the Army's processing methodology for Validation transactions--but only for Army units. Any VALID submitted from any non-Army unit will continue to be accepted and processed as they are currently.
G70017	XSM Retransmit Message does not work with the AMHS messages. The JSSC operators are forced to manually retransmit messages from the archive directory.
G70035	SORTS Update (sortsupd) at all GCCS sites produced "Segmentation Fault - core dumped" with program /h/GUPD/data/source/errmtf. Message reads: ERROR:program:/h/GUPD/data/source/errmtf FAILED with .139 code The software is trying to convert N0220 error into English equivalent.
G70059	A discrepancy has been found in the 'rec407.pc' file. There are two update dates functions. One is 'update_asi_shrtg_date' that updates the ARMY_STAT_RPT_DATE in the OVERALL record. The other is 'update_asishrtg_date' that updates the ARMY_STAT_RPT_DT in the UN_RPTD_ASI_SHRTG record. When the 'VALID' option is used on the RPTDUIC line, the update process aborts.
G70060	When an Army error is encountered in the update process, the error message is to be produced but the transaction is to be distributed if there are no Joint errors found. The software module blddistr.c removes the transaction that caused the error, but leaves any remarks that may accompany that record--thus leaving fragmentary and hanging remarks in the database.

**UNCLASSIFIED**

GUPD.P1-7

G70091	A lot of time is spent creating messages to interested commands that are not sent out by ramp. If the word EXCLUDE is found in the unit's Routing Indicator Code, the message is deleted and not transmitted. There are over 100 units in the uicom.dat file used by operations. Especially during the processing of Army reports, huge files are created for CINCS and interested commands that are not transmitted. These units should be removed from the distr_addr table prior to execution of sb23 and sb24 (delete, dumps, and transactions). If this was accomplished, the data would not be created.
G70097	SORTS processing and user interface code must be modified to link to a single instance of the PORTS reference table in GCCS. For more details refer to ECP #96029 which corrected this problem for TUCHA and GEOFILE.
G70098	SORTS processing and user interface code must be modified to link to a single instance of the APORTS reference table in GCCS. For more details, refer to ECP #96029 which corrected this problem for TUCHA both GEOFILE.
G70099	Using XSM, there is a problem when a user selects a function that brings up an xterm window that requires user input. The problem occurs when a user types something in the xterm window and then presses the backspace/delete key to correct a type-o or something. When the text is displayed in the text area of XSM, the backspace/delete character is displayed. In other words all characters typed will be displayed on the text area.
G70115	The Bump Counter Pop window is not displayed correctly the second time its displayed. The second time the window is displayed, the separator bar is at the top and the "Keep" & "Cancel" buttons stretch from the separator bar to the bottom of the screen. The four fields used to bump the values are scrolled off the top of the pop window. To work around the problem vertically resize the bump counter window until the four fields are visible, enter bump values. After doing that, if you call the bump counter a third time the Keep and Cancel buttons will be the length of the resized window. To work around that problem just vertically reduce the size of the bump counter window, cancel out and follow the first work around.
G70154	The software modules sb20.c, sb23.c, sb24.c, and blddistr.c are part of the distribution scheme to insure that other databases are kept current. This was the process used when many sites around the globe were processing initial input from reporting units. Now that sites are only reporting to the site located in the Pentagon (TXNCR2), there is absolutely no requirement or need for database deletes and dumps for interested commands (sb23) or transaction distribution (blddistr and sb24). Recommend removing the following modules from the script sortsupd.amhs: sb20.c, sb23.c, sb24.c, and blddistr.c. The only distribution that would be left is errors, received and processed reports, and database reviews.

**UNCLASSIFIED**

GCCS-Solaris 2.2.2-Release Notes  
rev 0  
June 27, 1997

G70181	When the Comms Processor determines that a message has a format error, one of several messages are produced. The most frequent are SET NAME ILLEGAL, MISSPELLED, OR OUT OF ORDER and SET HAS TOO MANY FIELDS . The message that is created by errhldmsg that is distributed to the originator contains a SORTUNIT// set, the AMPN/ SORTUNIT SET followed by the error. HQMC is unable to determine the originator, or the problem with the data supplied.
G70182	XSM does not have an interface for running the scripts to upload JOPES OPLAN data into PLANSTATUS.

**GSORTS ORACLE SERVER (3.2:04/29/97) (GORA.P1)*****SEGMENT DESCRIPTION***

GORA.P1 (GORA V3.2) , GSORTS Oracle Server, segment creates the ORACLE table space, GSORTS\_DATA to allow creation of the Status of Resources and Training System (SORTS) table definitions. ORACLE 7.1.4 constraints, views, and indexes are also created during installation of this segment. The segment provides the structure for GSORTS Update engine from GUPD segment and General Interactive Query System (GIQS) from GSORTS segment. The segment is part of the Global Command and Control System (GCCS) Oracle database. The ORACLE database manager should grant SORTS access to only authorized users.

This segment should be loaded on all GSORTS Oracle Servers.

***FIXES / NEW FEATURES***

This release updates the following:

GSPR G60752-A ROLE was created for the UPDATE users to replace the hard coded `<userid>/<password>` for the GSORTS UPDATE ENGINE. This required creating scripts to create, drop, and grant the UPDATE role after the role is first created and modifying database.pc to allow logging on for ORACLE access for sqlplus and sqlload with a simple "/" instead of `<userid>/<password>`.

GSPR G70078- Software module *distr\_tbl.pc* was modified to truncate the table instead of dropping it and module *sb20.c* was modified so it would not create the DISTR\_ADDR table.

***INSTALLATION INSTRUCTIONS***

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**NOTE:** GORA V3.0.1 segment should not be deinstalled before installing the GORA.P1 patch (GORA V3.2).An Oracle license is required to use this software.

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Step 1: Verify installation of required segments:  
GSORTS Oracle Server V3.0.1.

Step 2: Install GORA.P1 (3.2).

The following will be presented to the installer:



Enter Password for Oracle account gsorts:

**KNOWN PROBLEMS**

G61105 - Redesign SORTS database updates to use Oracle 7 mirroring of all sites with the Master SORTS Database. The fix required would be to redesign the current SORTS database processing concept and update the software and supporting processes to support update of the Master SORTS Database and then mirror it out to all GCCS site databases.

G61106 - SORTS is required to have a capability to support command center exercises, create an exercise database for the GCCS environment, modify SORTS processing code to support exercise transactions and handle the requisite date compression algorithms.

G61107 - Modify SORTS to utilize Navy ship location data (OTH-Gold information). Change the applicable SORTS modules to look at the applicable UB data locations in the GCCS database for Navy ship location data without actually storing said data in the SORTS database.

G61372 - ALTYP, FLAG, RESND scrub needs to be applied to SORTS. The fields were retained but identified as spare fields available for use. The reference tables, ALTYP and FLAG, need to be deleted from Database Specification and change applied to source, dataload, and dataload/data. Reference files need to be deleted from *GORA/cr* and field definitions corrected in *GORA/siq* directory and *GSORTS/data/gigs/Schema*.

G70153 - The following problems with GSORTS V3.0 were reported: (1) De-install oracle uses su -oradba -c sqlplus .../... su does PostInstall.oracle. (2) GORA/siq/ports.siq (spool commupd.log) should be removed. (3) Get oracle password(s) first so if not known you can quit install before making changes. (4) No log of install script errors after ports.siq. (5) PostInstall check for space compares directory names, should compare partition names. (6) PostInstall check for space fails if 1st dbf fit on 1 partition, 3rd dbf fit on different partition with space > 256 MB, 512 MB. (7) PostInstall sources /opt/bin/core.env, so does determine\_oracle\_password use su -oradba to make sure you get right DB. (8) PostInstall.oracle uses /h/GORA instead of \$INSTALL\_DIR. (9) Test for null password(s) returned from determine\_oracle\_password. (10) Userid/password hard coded in PostInstall.oracle.

**Link 11/TadilA (3.0.0.0:5/19/97) (LINK11)**

***SEGMENT DESCRIPTION***

The Link-11 Segment, Version 3.0.0.0 was developed to run with Unified Build, Version 3.0.1.6G, in the Global Command and Control System (GCCS), Version 2.2.

The Link-11 Segment, Version 3.0.0.0 must be loaded on the TDBM Master and should also be loaded on any machine where you wish to view Link-11 tracks. Failure to load the Link-11 Segment, Version 3.0.0.0 on a machine will result in an inability to view Link-11 tracks.

This segment should be loaded on any system where UB is desired and is fully loaded.

***FIXES / NEW FEATURES***

This release updates the following:

The following are fixes/new features for Link-11 3.0.0.0:

1. Included a roll-up of all previous Link-11 releases (specifically Link-11 2.2.2.0, see changes below).
2. Modified Link Track printouts to correct line truncation problems (e.g. "Last Report Data" cut off).
3. Corrected ASW Bearing bug where bearing values appeared as double the correct value.
4. Corrected Link ownship "future" updates problem of being discarded. Now handles ownship future updates as current.
5. Implemented new secure open function calls to support future DII security requirements.
6. Modified Link executables to generate Link Symbol Hash keys, vice Tdbm.
7. Modified passive interface reset to occur only upon read error, not at EOF.
8. Per specification, modified link to accept FRU's (and their reported tracks) upon receipt of only one M1 and an M5 message (although the specification dictates that the sender shall always send two M1 messages).

9. Disabled connections to the X-display for passive channels, to avoid channel death due to refused connection or other inability to display windows.
10. Corrected hardware file incorrect diskpace reserved.
11. Removed executables unnecessary for passive Link-11, and stripped remaining executables.

### ***INSTALLATION INSTRUCTIONS***

Step 1: Verify installation of required software, as indicated by the Requires file.

Step 2: Install Link-11, Version 3.0.0.0.

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

### ***KNOWN PROBLEMS***

1. When Archive is selected from the Link-11 Status window (raw data window), the entire contents of File Selection are inoperable on Solaris. On HP all radio buttons in the File Selection window are inoperable. The work around is to select a single line item in the Link activity window and select Archive from the Decoded Message window.
2. Link Filter options within the Link-11 Status Window (raw data window) are not functional.
3. Track Edit Next/Previous function is inoperable. Select several Link tracks and select EDIT from the Tracks pull down. The Link-11 Track Edit window appears, but the Previous/Next buttons do not work in this window. The work around is to select one track at a time.
4. There is no ability to confirm deleting track-by-track when deleting a block of Link tracks, because there is no DELETE option in the Link-11 Track Edit window.

Workaround: When doing block deletes of link tracks, always answer NO to the prompt about confirming deletes individually.

5. In the Link-11 Status window, occasionally an empty line will appear in the Link-11 activity window. This is normal. However, if the user selects this empty line, spurious data will in fact be present.

## **Patch 2 for GSORTS (2.3:06/24/97) (GSORTS.P2)**

### ***SEGMENT DESCRIPTION***

GSORTS Map/Retrieval, segment provides access to Status of Resources and Training System (SORTS) data in the GCCS Oracle database on the GCCS database server. Access to the SORTS portion of the GCCS database must be granted by the GCCS ORACLE database administrator. It provides the General Interactive Query System (GIQS) to retrieve unit status, major equipment and personnel information and geographical locations from the GCCS ORACLE database as reported to the Joint SORTS processor. The GIQS provides the means to select, filter and qualify retrievals. All data is stored in the user's work space. The retrievals can be displayed in Defense Mapping Agency vector maps by including latitude and longitude data in the retrieval to create questions. GSORTS application provides the ability to add questions, group questions into tailored situations, reconfigure situation panels, tailor map views, edit displayed data, and overlay data on vector or raster maps. HyperText help is provided for SORTS database specification and United States Message Text Format (USMTF) for reporting SORTSREP MESSAGES.

This segment should be loaded on your GSORTS Application Server Platform. The GSORTS Segment has the default SESSION number removed.

### ***FIXES / NEW FEATURES***

This release updates the following:

1. The GSORTS.P2 patch is being delivered to correct the GSORTS print problem. Software was modified removing the hard-coded session number.
2. The GSORTS Segment has the hard-coded SESSION number removed.
3. The ENVIRONMENT variable PRINTER was added to the run\_gsorts script and was set using the EM\_get\_current\_printer API.
4. The Xglobal, Xgeneral IQS, and Edit resource files were modified to use \$PRINTER environment variable instead of the EM\_get\_current\_printer API.

### ***INSTALLATION INSTRUCTIONS***

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**NOTE:** GSORTS V2.1 segment should not be deinstalled before installing the GSORTS.P2 patch (GSORTS 2.2). This delivery does not respond to any GSPRs or PRs.

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Step 1: Verify no users are logged onto the GSORTS Oracle database and that the user,

gsrtsupd (Pentagon update account) is not logged in.

Step 2: Verify installation of required segments GSORTS V2.0 segment.

Step 3: Install GSORTS.P2 (2.3).

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

### ***KNOWN PROBLEMS***

GSPR#	PROBLEM
G50489	GSORTS prompt option does not allow new information
G60625	Cannot tell which situation is currently being used. GSORTS knows but the operator doesn't know by any on-screen indicator.
G60613	In GIQS portion of GSORTS, it would be very helpful if you could tag multiple questions for deletion at one time. Currently, you have to select the RemoveFilter option, highlight a single filter, and click on OK.
G60622	Users desire an option under VIEW to filter the TEXT and readiness display either by GEOgraphic area shown on the map or no implicit GEO filter at all. Currently, TEXT is GEO filtered and readiness is not GEO filtered.
G60624	Enhancement requested. Allow changing column/field labels inside of GIQS so more meaningful-to-operator names appear in the retrieval.
G50608	GSORTS stores the last selected unit criteria when creating question
G50629	GSORTS stores the last selected unit criteria when creating question
G50840	GSORTS stores the last selected unit criteria when creating question
G50271	LAT/LONG grid display problem
G50335	Deselecting GIQS filter column requires unnecessary keystroke
G50487	GSORTS pim track displays local time
G50404	GSORTS map screen updating
G50372	Contents of certain fields are not completely shown
G50485	GIQS allows only one item for removal

G60717	GSORTS currently uses its own mapping software routines (GWORLD). The GCCS Program Office and System Engineer's Office has directed that GSORTS needs to utilize the DMA-provided mapping software routines available in the GCCS COE.
G60751	To make GCCS deadline, "GSORTS." was hardcoded into BuildQuery.c, Reports.c and the *.inp files in SQLFORMS directories. Develop an environment variable for GIQS, GSORTS, and sqlforms, etc. The ECP 95026 should identify modules and tables to modify.
G60756	The GSORTS version number that appears in the GSORTS main window is controlled in the module gsorts.c which resides in the GSORTS segment. This module has to be changed every time a patch or release is issued. Consequently, every patch issued will have to include a patch to the GSORTS segment. This is not only time consuming but costly; every patch issued to the OSF has to be on a separate 8mm tape and two copies of each patch delivered.
G61037	Software used to support SORTS and GSORTS on the Sun platforms and the WWS does not correctly handle dates for the year 2000 and beyond.
G61041	Robust printing capability. Once I run a query or report, I want the capability to print the entire report for all of the units pulled by the query. If I want to print all of the Security Police SORTS reports, I should be able to run a query and then print all of the reports for the units selected in the query. I can currently print the query results, but that is just a limited set of data (SELECT statements). Ideally, all of the units types will be set up as batch jobs and run sequentially, preferably without constant human intervention. Bottom line: I still need to be able to dump my complete database to paper (once in awhile for QC purposes).
G60774	In GIQS, the Report Function remains an incomprehensible feature. It is not "user-friendly" enough for new users to train themselves and the GSORTS Users Guide for Version 1.0 does not adequately explain how to use it.
G60777	Update the GSORTS Users Guide to include a more comprehensive section on the Report Function. Add to Help topics relating to the application itself and how to use it.
G60778	In the mapping function (under File --> Edit Question), after deleting a question in the Edit Question window, it will still be offered as a choice in the Select Application window under File --> Configure Situation Panel, as well as the Load Application window under Map Utilities --> Load Application.
G60779	In the mapping function, Xedit commands are not covered in either the Help function or the GSORTS Users Guide. Users unfamiliar with Xedit, find it very difficult to use.

G60805	In the mapping function (under View), when either the situation panel or text window is selected for display along with the map, the geographic area covered in the map window does not re-scale to fit the reduced window size. The map's physical size remains the same, and the geographic area outside the borders of the reduced window is simply cut off, resulting in the loss of data.
G60810	All references contained in the Reference function are inoperative.
G60811	Overlay --> MapRgn. Under Build MapRgn, when the user selects this function while working on an overlay that already contains a map region, all new nodes the user adds will automatically be connected to the existing map region. It does not allow the user to build another map region that is separate from the existing one.
G60812	Overlay --> MapRgn. In order to entirely remove a map region from the overlay, the user must use the Delete Node option and delete every node individually.
G60813	Overlay --> Points (Symbols). The "Move A Point" option continues to function even after toggled off. The only way to disable it is to select another option under Points (Symbols). Selecting the "Move A Point" option also causes the editing functions under Polylines and MapRgn to not function.
G60814	Overlay --> Points (Symbols). The "Delete A Point" option only functions after the user selects or deselects it. It does not remain enabled even though the square to the left of the option is highlighted.
G60815	Overlay --> Polylines. The "Move Way Point" option continues to function even after toggled off. The only way to disable it is to select another option under Polylines. Selecting the Polylines option also causes the editing functions under Points (Symbols) and MapRgn to not function.
G60816	Overlay --> Text. Most overlays produced by the ADPLO on a daily basis contain a lot of text that is continuously being changed, moved, resized, and deleted as situations change. The only way to accomplish any of these tasks under Overlay --> Text is to clear all of the text from the overlay and start from scratch. This will cause a simple editing step to turn into a very time-consuming operation.
G60817	When the application window is maximized, the map size within the window remains the same.
G60818	A print option is needed in the Batch Run feature to allow the user to automate hard copy production of overlays used on a daily basis.
G60819	Once text is plotted on the map, the user should be able to edit, move, and delete it without having to start from scratch. At a minimum, replace the Clear All button contained in the Screen Overlay and Map Positional Text windows with an option that allows the user to clear text selectively.

G60820	Update the GSORTS Users Guide to include a more comprehensive section on Query, to include an explanation of the F-keys.
G60821	Add an "Edit MapRgn" option to MapRgn that is independent of Build MapRgn to give the user the flexibility to edit an existing map region or build an entirely new one to be displayed simultaneously. Modify MapRgn --> Build MapRgn to open a window similar to the Overlay Text and Overlay Point windows which allow the user the option of placing nodes at specific coordinates on the map. Add a "Delete MapRgn" option to MapRgn that allows the user to remove a map region by clicking either on a node or anywhere within the region.
G60822	The panel, text, and map display windows need to be fixed to permit the user to manually re-size them by clicking and dragging on the borders/corners.
G60824	The method of option selection for the Pimtrack and Overlay options should be changed from the toggle on/off system to a one-time click and use system like that of MapRgn. All option selections should have a common look-and-feel that is user-friendly.
G60825	Overlay --> Text function has insufficient choices for both font and font size.
G61223	The GSORTS v2.0 Main Menu has been around for approximately two (plus) years. Request the following menu options, which still display "this function not yet available" when the user tries to activate them, be removed: a) reports/adhocs, b) options/mail, c) references/Janes/Gazetteer/CIA World Facts.
G70063	The GSORTS graphical user interface must be changed to support the Common Desktop Environment (CDE) Integration Specification for GCCS v3.0.
G70097	SORTS processing and user interface code must be modified to link to a single instance of the PORTS reference table in GCCS. For more details refer to ECP #96029 which corrected this problem for TUCHA and GEOFILE.
G70098	SORTS processing and user interface code must be modified to link to a single instance of the APORTS reference table in GCCS. For more details, refer to ECP #96029 which corrected this problem for TUCHA both GEOFILE.
G70099	Using XSM, there is a problem when a user selects a function that brings up an xterm window that requires user input. The problem occurs when a user types something in the xterm window and then presses the backspace/delete key to correct a type-o or error. When the text is displayed in the text area of XSM, the backspace/delete character is displayed. In other words all characters typed will be displayed on the text area.
G61057	Report is not saved when GIQS is exited and re-entered. Clarify how to landscape the output from the report and print.



G61343	Print capability of GIQS is not meeting user's needs for the following reasons: 1) The reports contain quite a few columns once they are formatted. The only way to print them in their entirety is to screen print sections and manually cut/paste and copy. Limits capability to an extent.
G70093	When loading/reading Adrg Maps using NEW CDROM, the Open Adrg Map screen will not read the map. MAP UTILITY - NEW CDROM , pressed OK. Window pops up Open Adrg Map no map is read. Work around: Use the Open Adrg Map pull down instead of New CDROM to open the Adrg Maps. This will read the maps from CDROM. Click on MAP ID to read or load.

**Theater Ballistic Missile Defense (3.0.5.5:05/01/97) (TBMD)**

***SEGMENT DESCRIPTION***

This segment provides alert and monitoring services in the event of the receipt of a missile-type track into UB. The services can be triggered by a report over national sensors (TRE/TRAP/TIBS) or by receipt of the track from another UB-based system (via Gen Broadcast, Mdx, or MdxNet/COP). The user is alerted with an audible verbal warning, the missile track(s) dynamic projected position and probable launch/impact points are drawn on UB's system chart, and a monitoring window is displayed, from which more information can be gleaned about the missile(s).

This segment should be loaded on all UB machines requiring TBMD type information.

***FIXES / NEW FEATURES***

This release updates the following:

1. This version of TBMD incorporates a problem correction to prevent the hang condition when the cancel button of the control panel window is pressed.
2. This release contains the full set of TBMD functionality and is intended to replace TBMD version 3.0.4.2 or 3.0.5.3 in its entirety.

***INSTALLATION INSTRUCTIONS***

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**NOTE:** Previous releases of TBMD should be de-installed before loading TBMD version 3.0.5.5. To increase the capability of this segment, GCCSSD Segment Version 2.2.3 should be loaded on the TDBM master prior to install.

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Step 1: Verify installation of required segments:  
GCCS COE 3.0.1; and  
UB Apps 3.0.1.

Step 2: Install TBMD 3.0.5.5.

The following will be presented to the installer:

**\*\*\*\*\*No dialog is presented.\*\*\*\*\***

**Unified Build (3.0.1.6GP5:04/30/97) (UBPATCH5)*****SEGMENT DESCRIPTION***

The UBPATCH5 upgrades the functionality of a GCCS 2.2 machine with UB fully loaded. It adds several new capabilities and corrects problems specified below. The updated programs and data span the contents of the various UB segments (GCCS COE, JMTK, UBApps, JMCISApps, and Printer), as these are inter-related.

All future UBPATCH segments (e.g. UBPATCH 3.0.1.6GP6) will be roll-ups of all previous UBPATCH segments, and the deinstall/reinstall will happen automatically when the new UBPATCH is installed.

This segment should be loaded on any system where UB is desired and is fully loaded.

***FIXES / NEW FEATURES***

This release updates the following:

1. Includes roll-up of all previous 3.0.1.6G patches (specifically UBPATCH, Version 3.0.1.6GP1, 3.0.1.6GP2, and 3.0.1.6GP3, and 3.0.1.6GP4, see changes below).
2. Corrected potential Master Tdbm instability in the case of a client process submitting a poorly constructed track structure. Tdbm no longer terminates abnormally, even given bad data.
3. Corrected a problem with the Alert Log on HP that caused the Log to core dump and fail to appear under certain circumstances.
4. Added capability to show Mode 1, mode 2 /PIF, or Mode 3 as symbol labels on Link tracks on the chart, and added ability to select those columns (and sort by them) in the TRACK SUMMARY windows.
5. Reworked socket connection mechanisms in MDX channel to improve stability. Corrected logic to enable auto-reconnection of the MDX channel after network failures. Improved details in Raw Window display and manually debugging output.
6. Corrected the Critical TacPlot Error and Chart crash reported in conjunction with the AutoPlot-Off feature. Also corrected a number of smaller memory leaks in TacPlot.
7. Corrected a problem with UB serial channels in handling of incoming message buffers. The last message received would hang in the buffer and would not be processed by the receiving system until another message arrived or a small period of time passed.

8. Added two MISC menu items: PREPARE FLOPPY and EJECT FLOPPY, to enable ATO imports from floppy via the ATO log. PREPARE FLOPPY need be run only once on an HP (set up device links), but once per insertion of the floppy on Solaris (after disk is inserted).
9. Increased the maximum size of the PIF Nicknames table from 100 to 500.
10. Corrected a minor UB problem with core Ocm that could cause Ocm client lockup if certain APIs are used and an invalid request is received.

### ***INSTALLATION INSTRUCTIONS***

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**NOTE:** Reboot the system after installation of the UBPATCH 3.0.1.6GP4.

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Step 1: Verify installation of required segments:

GCCS COE 3.0.1.6;  
Joint Mapping Toolkit 3.0.1.6;  
UB Apps 3.0.1.6; and

Step 2: Install UBPATCH5 (3.0.1.6GP5).

The following will be presented to the installer:

UPON COMPLETION OF UBPATCH INSTALLATION YOU MUST REBOOT THE TDBM MASTER  
AND ALL CLIENTS ASSOCIATED WITH THIS SYSTEM.

OK

### ***KNOWN PROBLEMS***

This release contains the following:

1. While the ATO Import capability has been enhanced, the ATO Export capability remains inoperable at this time. There is no workaround solution for this issue.
2. Due to a difference in implementation and a related SOLARIS operating system limitation, the ARCHIVE-RESTORE feature will not work in conjunction with the PREPARE FLOPPY

option.

The PREPARE FLOPPY and EJECT FLOPPY options are designed to be used during the ATO Import process only. Selecting PREPARE FLOPPY invokes the volume manager, creating device links from the floppy drive to the ATO Import process. The EJECT FLOPPY option releases the floppy drive device, making it available for use by other processes.

The PREPARE FLOPPY option should only be used as part of the ATO Import function process. Never use the PREPARE FLOPPY option in conjunction with an ARCHIVE-RESTORE function. Instead, use the options presented on the ARCHIVE-RESTORE window pop-up menu.

**WORKAROUND:** If the PREPARE FLOPPY option is inadvertently used during an ARCHIVE-RESTORE process, the archive/restore will fail and return an error which indicates that the device is busy. To release the floppy device for use by the archive/restore process, select the EJECT FLOPPY option. Once the floppy disk has been ejected, reinsert the floppy disk, select the ARCHIVE-RESTORE option, and use the functions available in the ARCHIVE-RESTORE window and pop-up menu to select the appropriate floppy drive, archive or restore the data, and eject the floppy disk.